

# Chile uses solar energy to pump water for power generation

This PDF is generated from: <https://2xt.com.pl/23-10-24-23199.html>

Title: Chile uses solar energy to pump water for power generation

Generated on: 2026-05-21 15:37:12

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Located in the heart of Chile's Atacama desert, the Espejo de Tarapacá project will combine solar power with seawater-driven hydropower to create a 24/7, non-intermittent stream of renewable energy.

In October 2015 Chile's Ministry of Energy announced its "Roadmap to 2050: A Sustainable and Inclusive Strategy", which planned for 19% of the country's electricity to be from solar energy, 23% ...

Chile is uniquely positioned geographically to capitalize on solar energy. With its vast deserts, particularly the Atacama Desert, which is known for having one of the highest solar radiation ...

The use of Solar pumping system instead of diesel generator pumping greatly reduces the cost of construction and maintenance, and the system has a one-time investment, fully automatic operation ...

Solar plants thrive under its intense sunlight, and new ideas aim to use that same energy to generate clean water. By merging solar power and water production, the Atacama could transform ...

Chile has emerged as a global producer of renewable energy given its abundant natural resources. The Atacama Desert provides resources for wind and solar power production.

The world's first pumped hydro storage project is being developed in Chile, using solar energy to push seawater up a cliff. Wind power has long been stored using pumped hydro.

Chile's current energy mix includes solar power, wind power, and hydropower, which all have more than a 20% share of annual generation.



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Solar power in Chile is an increasingly important source of energy. Total installed photovoltaic (PV) capacity in Chile reached 11.05 GW in 2023. In 2024, Solar energy provided 19.92 TWh of electricity generation in Chile, accounting for 22.3% of total national electricity grid generation, compared to less than 0.1% in 2013. In October 2015 Chile's Ministry of Energy announced its "Roadmap to 2050: A Sustainable and Inklus...

Today 35.4% of the energy generated in Chile is from wind energy and solar power, and 37.2% comes from water sources in the National Electric System (SEN), which covers the vast ...

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